

Amendments To The Claims:

Please amend the claims as shown.

1 – 11 (canceled)

12. (new) A heat exchanger tube, comprising:

a tube having an outside surface exposed to a steam medium and an inside surface exposed to a cooling medium;

a first layer arranged on the outside surface of the tube for reducing an adhesion of the steam medium to the tube outer surface; and

a second biocidal layer arranged on the inside surface of the tube that reduces an adhesion of the cooling medium to the tube inner surface and inhibits encrustation to the tube inner surface.

13. (new) The heat exchanger tube as claimed in claim 12, wherein the first layer or the second layer are formed by a plurality of sub-layers.

14. (new) The heat exchanger tube as claimed in claim 12, wherein the first or second layer of the heat exchanger tube are coatings and each coating is produced differently from the other.

15. (new) The heat exchanger tube as claimed in claim 14, wherein the first layer reduces the surface tension of the outer surface.

16. (new) A power plant heat exchanger, comprising:

a plurality of heat exchanger tubes having an outside surface and an inside surface that rout a cooling medium along the inside surface of the tube wherein:

a first layer is arranged on the outside surface of the tube for reducing an adhesion of the steam medium to the tube outer surface, and

a second biocidal layer is arranged on the inside surface of the tube that reduces an adhesion of the cooling medium to the tube inner surface and inhibits encrustation to the tube inner surface; and
a steam medium routing configured to rout a steam medium upon the outside surface of the heat exchanger tube.

17. (new) The heat exchanger as claimed in claim 16, wherein the heat exchanger tube is a longitudinally welded tube having a weld seam running along a long axis of the tube and the tube is arranged in the assembled heat exchanger such that the tube weld seam is located at an upper most position of the tube cross section.

18. (new) A steam power heat exchanger system, comprising:
a heat source;
a boiler connected to the heat source that intakes a liquid working fluid and heats the fluid to generate a steam flow;
a steam turbine connected to the boiler that expands the steam flow; and
a condenser that condenses the expanded steam flow into the liquid working fluid,
wherein the condenser comprises:

a plurality of heat exchanger tubes having a weld seam running along a long axis of the tube arranged in the assembled condenser such that the tube weld seam is located at an upper most position of the tube cross section, the heat exchanger tubes further having an outside surface and an inside surface that rout a cooling medium along the inside surface of the tube wherein:

a first layer is arranged on the outside surface of the tube for reducing an adhesion of the steam flow to the tube outer surface, and
a second biocidal layer is arranged on the inside surface of the tube that reduces an adhesion of the cooling medium to the tube inner surface; and
a steam flow routing configured to rout the steam flow upon the outside surface of the heat exchanger tube.

19. (new) The steam power plant as claimed in claim 18, wherein the first and second layer materials are selected from the group consisting of: polytetrafluoroethylene, a carbon system, and an organic silicate network.